EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	motivations and opinions and weighting and model and strength . clm.	USPAT	OR	OFF	2007/06/24 20:19
L2	. 1	motivations and opinions and weighting and model and strength . clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/06/24 20:19

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	motivations and opinions and weighting and model and strength . clm.	USPAT	OR	OFF	2007/06/24 20:19
L2	1	motivations and opinions and weighting and model and strength . clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/06/24 20:19
L3	3	(covariance OR covariation) and motivation and opinion and weighting and model and strength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/06/24 20:20
L4	7	(covariance OR covariation) and motivation and opinion and weighting and model	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/24 20:20
L5	7	(covariance OR covariation) and motivation and opinion and weighting	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/24 20:20
L6 	14	(covariance OR covariation) and motivation and opinion and weight	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/06/24 20:20

Patent Database Search Results: (covariance OR covariation) and motivation and opinion ... Page 1 of 1

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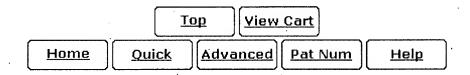
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Refine Search (covariance OR covariation) and motivation and opin

PAT.

NO.

- 1 7,186,881 **T** Testing compounds for effects on synaptophysin in transgenic mice expressing an Alzheimer's disease FAD DNA sequence
- 2 6,904,408 T Bionet method, system and personalized web content manager responsive to browser viewers' psychological preferences, behavioral responses and physiological stress indicators
- 3 6,717,031 T Method for selecting a transgenic mouse model of alzheimer's disease
- 4 6,549,861 T Automated system and method for spectroscopic analysis
- 5 6,132,724 T Allelic polygene diagnosis of reward deficiency syndrome and treatment
- 6 5,825,936 T Image analyzing device using adaptive criteria





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Organizational experiences and career success of MIS professionals and

examination of race differences Wayne M. Wormley, Magid Igbaria

March 1991 Proceedings of the 1991 conference on SIGCPR SIGCPR '91

Publisher: ACM Press

Full text available: pdf(1.84 MB)

Additional Information: full citation, references, index terms

System designers' user models: a comparitive study and methodological critique



Ron Dagwell, Ron Weber

November 1983 Communications of the ACM, Volume 26 Issue 11

Publisher: ACM Press

Full text available: pdf(1.11 MB)

Additional Information: full citation, references, citings, index terms

Keywords: behavioral problems, contingency theory, implementation, information systems, information systems design, organizational change

Estimation of Gradients and Coordinate Covariation in Classification

Sayan Mukherjee, Qiang Wu-

December 2006 The Journal of Machine Learning Research, Volume 7

Publisher: MIT Press

Full text available: pdf(351.14 KB) Additional Information: full citation, abstract

We introduce an algorithm that simultaneously estimates a classification function as well as its gradient in the supervised learning framework. The motivation for the algorithm is to find salient variables and estimate how they covary. An efficient implementation with respect to both memory and time is given. The utility of the algorithm is illustrated on simulated data as well as a gene expression data set. An error analysis is given for the convergence of the estimate of the classification ...

Bayes net graphs to understand co-authorship networks?

Anna Goldenberg, Andrew W. Moore

August 2005 Proceedings of the 3rd international workshop on Link discovery LinkKDD '05

Publisher: ACM Press

Full text available: 📆 pdf(482.60 KB) Additional Information: full citation, abstract, references

Improvements in data collection and the birth of online communities made it possible to obtain very large social networks (graphs). Several communities have been involved in modeling and analyzing these graphs. Usage of graphical models, such as Bayesian Networks (BN), to analyze massive data has become increasingly popular, due to their scalability and robustness to noise. In the literature BNs are primarily used for compact representation of joint distributions and to perform inference, i.e. a ...

Keywords: bayesian networks, co-authorship networks, graph analysis, massive data, structural learning

5 Introduction to Bayesian learning

Aaron Hertzmann

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(899.54 KB) Additional Information: full citation, abstract

Sophisticated computer graphics applications require complex models of appearance, motion, natural phenomena, and even artistic style. Such models are often difficult or impossible to design by hand. Recent research demonstrates that, instead, we can "learn" a dynamical and/or appearance model from captured data, and then synthesize realistic new data from the model. For example, we can capture the motions of a human actor and then generate new motions as they might be performed by that actor. B ...

⁶ Learning Coordinate Covariances via Gradients

Sayan Mukherjee, Ding-Xuan Zhou

December 2006 The Journal of Machine Learning Research, Volume 7

Publisher: MIT Press

Full text available: pdf(337.15 KB) Additional Information: full citation, abstract

We introduce an algorithm that learns gradients from samples in the supervised learning framework. An error analysis is given for the convergence of the gradient estimated by the algorithm to the true gradient. The utility of the algorithm for the problem of variable selection as well as determining variable covariance is illustrated on simulated data as well as two gene expression data sets. For square loss we provide a very efficient implementation with respect to both memory and time.

7 Task clustering and gating for bayesian multitask learning

Bart Bakker, Tom Heskes

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(229.33 KB)

Additional Information: full citation, abstract, references, citings, index terms

Modeling a collection of similar regression or classification tasks can be improved by making the tasks 'learn from each other'. In machine learning, this subject is approached through 'multitask learning', where parallel tasks are modeled as multiple outputs of the same network. In multilevel analysis this is generally implemented through the mixed-effects linear model where a distinction is made between 'fixed effects', which are the same for all tasks, and 'random effects', which may vary bet ...

8 Research track posters: Parallel computation of high dimensional robust correlation

and covariance matrices

James Chilson, Raymond Ng, Alan Wagner, Ruben Zamar

August 2004 Proceedings of the tenth ACM SIGKDD international conference on

Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Additional Information:

Full text available: pdf(169.41 KB)

full citation, abstract, references, citings, index terms

The computation of covariance and correlation matrices are critical to many data mining applications and processes. Unfortunately the classical covariance and correlation matrices are very sensitive to outliers. Robust methods, such as QC and the Maronna method, have been proposed. However, existing algorithms for QC only give acceptable performance when the dimensionality of the matrix is in the hundreds; and the Maronna method is rarely used in practice because of its high computational cost. I ...

Keywords: Maronna, correlation, covariance, parallel, robust

Multimedia data indexing: A PCA-based similarity measure for multivariate time



Kiyoung Yang, Cyrus Shahabi

November 2004 Proceedings of the 2nd ACM international workshop on Multimedia databases MMDB '04

Publisher: ACM Press

Full text available: pdf(207.48 KB)

Additional Information: full citation, abstract, references, citings, index

Multivariate time series (MTS) datasets are common in various multimedia, medical and financial applications. We propose a similarity measure for MTS datasets, <i>Eros</i> <i>E</i>xtended F<i>ro</i>beniu<i>s</i>norm), which is based on Principal Component Analysis (PCA). <i>Eros</i> applies PCA to MTS datasets represented as matrices to generate principal components and associated eigenvalues. These principal

Keywords: multivariate time series, nearest neighbor search, principal component analysis, similarity measure, singular value decomposition

10 A generative Bayesian model for aggregating experts' probabilities

components and eigenvalues are then used to ...



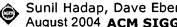
July 2004 Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04

Publisher: AUAI Press

Full text available: pdf(441.55 KB) Additional Information: full citation, abstract, references

In order to improve forecasts, a decision-maker often combines probabilities given by various sources, such as human experts and machine learning classifiers. When few training data are available, aggregation can be improved by incorporating prior knowledge about the event being forecasted and about salient properties of the experts. To this end, we develop a generative Bayesian aggregation model for probabilistic classification. The model includes an event-specific prior, measures of individ ...

11 Collision detection and proximity gueries .



Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(11,22 MB) Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

Estimation of distribution algorithms: Real-coded crossover as a role of kernel density





estimation

Jun Sakuma, Shigenobu Kobayashi

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(469.44 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a kernel density estimation method by means of real-coded crossovers. Estimation of density algorithms (EDAs) are evolutionary optimization techniques, which determine the sampling strategy by means of a parametric probabilistic density function estimated from the population. Real-coded Genetic Algorithm (RCGA) does not explicitly estimate any probabilistic distribution, however, the probabilistic model of the population is implicitly estimated by crossovers and the sampling ...

Keywords: crossover, expectation maximization, gaussian mixture model, kernel density estimation, real-coded GA

13 R_1 -PCA: rotational invariant L_1 -norm principal component analysis for robust



subspace factorization

Chris Ding, Ding Zhou, Xiaofeng He, Hongyuan Zha

June 2006 Proceedings of the 23rd international conference on Machine learning ICML '06

Publisher: ACM Press

Full text available: pdf(317.44 KB) Additional Information: full citation, abstract, references, index terms

Principal component analysis (PCA) minimizes the sum of squared errors (L2-norm) and is sensitive to the presence of outliers. We propose a rotational invariant L1-norm PCA (R1-PCA). R1-PCA is similar to PCA in that (1) it has a unique global solution, (2) the solution are principal eigenvectors of a robust covariance matrix (re-weighted to soften the effects of outliers), (3) the solution is rotational invariant. These prop ...

14 An implementation of structured walk-throughs in teaching Cobol programming





Ronald S. Lemos

June 1979 Communications of the ACM, Volume 22 Issue 6

Publisher: ACM Press

Full text available: pdf(508.99 KB) Additional Information: full citation, abstract, references, citings

The effectiveness of structured walk-throughs in teaching introductory Cobol programming was empirically assessed with a sample of 215 undergraduate business administration majors. Cobol proficiency was measured by a final examination testing (a) knowledge of language rules, (b) ability to read and debug a program, and (c) the ability to write a program. Analysis of multiple covariance was used to statistically adjust test scores for age and conditional reasoning scores. The find ...

Keywords: Cobol programming, structured walk-throughs, teaching of programming, testing programming proficiency

15 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(4.28 MB)

Additional Information: full citation, abstract, references, citings, index

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible Results (page 1): (covariance OR covariation) and motivation and opinion and weight

technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

Walk-Sums and Belief Propagation in Gaussian Graphical Models

Dmitry M. Malioutov, Jason K. Johnson, Alan S. Willsky

December 2006 The Journal of Machine Learning Research, Volume 7

Publisher: MIT Press

Full text available: pdf(389.12 KB) Additional Information: full citation, abstract

We present a new framework based on walks in a graph for analysis and inference in Gaussian graphical models. The key idea is to decompose the correlation between each pair of variables as a sum over all walks between those variables in the graph. The weight of each walk is given by a product of edgewise partial correlation coefficients. This representation holds for a large class of Gaussian graphical models which we call walk-summable. We give a precise characterization of this class of mod ...

17 Constructing informative priors using transfer learning

Rajat Raina, Andrew Y. Ng, Daphne Koller

June 2006 Proceedings of the 23rd international conference on Machine learning ICML '06

Publisher: ACM Press

Full text available: pdf(224.55 KB) Additional Information: full citation, abstract, references, index terms

Many applications of supervised learning require good generalization from limited labeled data. In the Bayesian setting, we can try to achieve this goal by using an informative prior over the parameters, one that encodes useful domain knowledge. Focusing on logistic regression, we present an algorithm for automatically constructing a multivariate Gaussian prior with a full covariance matrix for a given supervised learning task. This prior relaxes a commonly used but overly simplistic independenc ...

18 Adoption, diffusion, and infusion of IT: Extending the technology acceptance model:

the influence of perceived user resources

Kieran Mathieson, Eileen Peacock, Wynne W. Chin July 2001 **ACM SIGMIS Database**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(2.33 MB)

Additional Information: full citation, abstract, references, citings, index terms

There has been considerable research on the factors that predict whether individuals will accept and voluntarily use information systems. The technology acceptance model (TAM) has a base in psychological research, is parsimonious, explains usage behavior quite well, and can be operationalized with valid and reliable instruments. A limitation of TAM is that it assumes usage is volitional, that is, there are no barriers that would prevent an individual from using an IS if he or she chose to do so. ...

Keywords: technology adoption, technology diffusion

19 The role of training in preparing end users to learn new but similar software packages

Lorne Olfman, Conrad Shayo

April 1997 Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research SIGCPR '97

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, references, citings, index terms

20 Learning the Structure of Linear Latent Variable Models

Ricardo Silva, Richard Scheine, Clark Glymour, Peter Spirtes
December 2006 The Journal of Machine Learning Research, Volume 7

Publisher: MIT Press

Full text available: pdf(528.80 KB) Additional Information: full citation, abstract

We describe anytime search procedures that (1) find disjoint subsets of recorded variables for which the members of each subset are d-separated by a single common unrecorded cause, if such exists; (2) return information about the causal relations among the latent factors so identified. We prove the procedure is point-wise consistent assuming (a) the causal relations can be represented by a directed acyclic graph (DAG) satisfying the Markov Assumption and the Faithfulness Assumption; (b) unrec ...

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Best 200 shown

²¹ Learning the Kernel Matrix with Semidefinite Programming

Gert R. G. Lanckriet, Nello Cristianini, Peter Bartlett, Laurent El Ghaoui, Michael I. Jordan December 2004 The Journal of Machine Learning Research, Volume 5

Publisher: MIT Press

Full text available: pdf(467.50 KB)

Additional Information: full citation, abstract, references, citings, index

Kernel-based learning algorithms work by embedding the data into a Euclidean space, and then searching for linear relations among the embedded data points. The embedding is performed implicitly, by specifying the inner products between each pair of points in the embedding space. This information is contained in the so-called kernel matrix, a symmetric and positive semidefinite matrix that encodes the relative positions of all points. Specifying this matrix amounts to specifying the geometry of t ...

22 Object tracking: A survey

Alper Yilmaz, Omar Javed, Mubarak Shah

December 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(2.60 MB) Additional Information: full citation, abstract, references, index terms

The goal of this article is to review the state-of-the-art tracking methods, classify them into different categories, and identify new trends. Object tracking, in general, is a challenging problem. Difficulties in tracking objects can arise due to abrupt object motion, changing appearance patterns of both the object and the scene, nonrigid object structures, object-to-object and object-to-scene occlusions, and camera motion. Tracking is usually performed in the context of higher-level applicatio ...

Keywords: Appearance models, contour evolution, feature selection, object detection, object representation, point tracking, shape tracking

²³ The when, why and why not of the BETA programming language

Bent Bruun Kristensen, Ole Lehrmann Madsen, Birger Møller-Pedersen June 2007 Proceedings of the third ACM SIGPLAN conference on History of programming languages HOPL III

Publisher: ACM Press

Full text available: pdf(817.60 KB) Additional Information: full citation, abstract, references, index terms

This paper tells the story of the development of BETA: a programming language with just one abstraction mechanism, instead of one abstraction mechanism for each kind of program element (classes, types, procedures, functions, etc.). The paper explains how this single abstraction mechanism, the pattern, came about and how it was designed to be so powerful that it covered the other mechanisms.

In addition to describing the technical challenge of capturing all programming elements with jus ...

Keywords: history of programming, object-oriented analysis, object-oriented design, object-oriented modeling, object-oriented programming, programming languages

24 Graphical interactive simulation input modeling with bivariate Bézier distributions

Mary Ann Flanigan Wagner, James R. Wilson

July 1995 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 5 Issue 3

Publisher: ACM Press

Full text available: 📆 pdf(1.47 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A graphical interactive technique for modeling bivariate simulation inputs is based on a family of continuous univariate and bivariate probability distributions with bounded support that are described by Be´zier curves and surfaces, respectively. This family of distributions has a natural, extensible parameterization so that all parameters have a meaningful interpretation; and the complete family is capable of accurately representing an unlimited variety of shapes for marginal distrib ...

Keywords: graphical interactive distribution fitting

25 T1-E: MIMO systems symposium: Multiuser MIMO MAC with statistical CSI and



MMSE receiver: feedback strategies and transmitter optimization Eduard A: Jorswieck, Aydin Sezgin, Holger Boche, Elena Costa

July 2006 Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06

Publisher: ACM Press

Full text available: Topdf(182.68 KB) Additional Information: full citation, abstract, references, index terms

We consider a multi-input multi-output (MIMO) multiple access channel (MAC) where the base station has perfect channel state information (CSI), while the mobiles have only partial CSI. The statistical CSI at the mobiles can be obtained either by implicit (during downlink transmission) or explicit (via a low rate control channel) feedback. The base applies a linear multiuser MMSE receiver and thus the optimization criteria is the average sum MSE. We optimize the average sum MSE with implicit and ...

Keywords: MAC, MIMO, MMSE receiver, OFDM, feedback, partial CSI

26 <u>Special issue on kernel methods: Kernel partial least squares regression in</u> reproducing kernel hilbert space

Roman Rosipal, Leonard J. Trejo

March 2002 The Journal of Machine Learning Research, Volume 2

Publisher: MIT Press

Full text available: pdf(260.73 KB) Additional Information: full citation, abstract, citings

A family of regularized least squares regression models in a Reproducing Kernel Hilbert Space is extended by the kernel partial least squares (PLS) regression model. Similar to principal components regression (PCR), PLS is a method based on the projection of input (explanatory) variables to the latent variables (components). However, in contrast to PCR, PLS creates the components by modeling the relationship between input and output variables while maintaining most of the information in the inpu ...



<u>Articles on microarray data mining: Loss-based estimation with cross-validation:</u> applications to microarray data analysis



Sandrine Dudoit, Mark J. van der Laan, Sündüz Keleş, Annette M. Molinaro, Sandra E. Sinisi, Siew Leng Teng

December 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 2

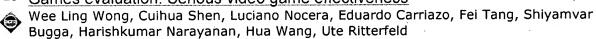
Publisher: ACM Press

Full text available: pdf(325.39 KB) Additional Information: full citation, abstract, references, citings

Current statistical inference problems in genomic data analysis involve parameter estimation for high-dimensional multivariate distributions, with typically unknown and intricate correlation patterns among variables. Addressing these inference questions satisfactorily requires: (i) an intensive and thorough search of the parameter space to generate good candidate estimators; (ii) an approach for selecting an optimal estimator among these candidates; and (iii) a method for reliably assessing the ...

Keywords: censored data, classification, comparative genomic hybridization, cross-validation, density estimation, estimation, loss function, microarray, model selection, multivariate outcome, prediction, regression trees, risk, survival analysis, variable selection

28 Games evaluation: Serious video game effectiveness



June 2007 Proceedings of the international conference on Advances in computer entertainment technology ACE '07

Publisher: ACM Press

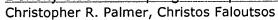
Full text available: pdf(1.67 MB)

Additional Information: full citation, abstract, references, index terms

Given the interactive media characteristics and intrinsically motivating appeal, computer games are often praised for their potential and value in education allHowever, comprehensive research testing these assumptions is still missing. Preliminary comparative studies on the learning effects of games versus traditional media have shown some promise. In this paper, we describe a comparative study that thoroughly investigates the effects of interactivity and media richness on science learning am ...

Keywords: computer games, digital media, education, entertainment-education, hypertext, interactivity, learning effects, media richness, motivation, replay, serious games, text

29 Density biased sampling: an improved method for data mining and clustering



May 2000 ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(496.85 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data mining in large data sets often requires a sampling or summarization step to form an in-core representation of the data that can be processed more efficiently. Uniform random sampling is frequently used in practice and also frequently criticized because it will miss small clusters. Many natural phenomena are known to follow Zipf's distribution and the inability of uniform sampling to find small clusters is of practical concern. Density Biased Sampling is proposed to probabilistically und ...

30 Overlay networking: Managing a portfolio of overlay paths

Daria Antonova, Arvind Krishnamurthy, Zheng Ma, Ravi Sundaram
June 2004 Proceedings of the 14th international workshop on Network and operating
systems support for digital audio and video NOSSDAV '04

Publisher: ACM Press

Full text available: pdf(175.56 KB) Additional Information: full citation, abstract, references, index terms

In recent years, several architectures have been proposed and developed for supporting streaming applications that take advantage of multiple paths through the network simultaneously. We consider the problem of computing a set of paths and the relative amounts of data conveyed through them in order to provide the desired level of performance for data streams. Given the expectation, variance, and covariance of an appropriate metric of interest for overlay links, we attempt to solve the underlying ...

Keywords: overlay networks, video streaming

31 Comparing Bayes model averaging and stacking when model approximation error cannot be ignored

Bertrand Clarke

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(248.77 KB) Additional Information: full citation, abstract, references, index terms

We compare Bayes Model Averaging, BMA, to a non-Bayes form of model averaging called stacking. In stacking, the weights are no longer posterior probabilities of models; they are obtained by a technique based on cross-validation. When the correct data generating model (DGM) is on the list of models under consideration BMA is never worse than stacking and often is demonstrably better, provided that the noise level is of order commensurate with the coefficients and explanatory variables. Here, howe ...

32 <u>Dimensionality Reduction for Supervised Learning with Reproducing Kernel Hilbert</u> Spaces

Kenji Fukumizu, Francis R. Bach, Michael I. Jordan

December 2004 The Journal of Machine Learning Research, Volume 5

Publisher: MIT Press

Full text available: pdf(389.63 KB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a novel method of dimensionality reduction for supervised learning problems. Given a regression or classification problem in which we wish to predict a response variable Y from an explanatory variable X, we treat the problem of dimensionality reduction as that of finding a low-dimensional "effective subspace" for X which retains the statistical relationship between X and Y. We show that this problem can be formulated in terms of conditional independe ...

33 Trustworthiness in B2C e-commerce: an examination of alternative models

Mark A. Serva, John Skip Benamati, Mark A. Fuller
August 2005 ACM SIGMIS Database, Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(365.73 KB) Additional Information: full citation, abstract, references, index terms

Advancing research on trust requires clarifying the different conceptualizations of trust and trust-related constructs. The purpose of this study is to advance the theoretical conceptualization of trustworthiness by synthesizing previous research and testing three alternative conceptualizations within the e-commerce context. Data collected from multiple studies involving over 700 participants were used to examine the relative merits of trustworthiness as a one-dimensional construct, a grouping o ...

Keywords: ability, benevolence, electronic commerce, integrity, second order factors, trust, trustworthiness, world wide web

Kernel Predictive Linear Gaussian models for nonlinear stochastic dynamical systems





David Wingate, Satinder Singh

June 2006 Proceedings of the 23rd international conference on Machine learning ICML '06 .

Publisher: ACM Press

Full text available: Topdf(209.70 KB) Additional Information: full citation, abstract, references, index terms

The recent Predictive Linear Gaussian model (or PLG) improves upon traditional linear dynamical system models by using a predictive representation of state, which makes consistent parameter estimation possible without any loss of modeling power and while using fewer parameters. In this paper we extend the PLG to model stochastic, nonlinear dynamical systems by using kernel methods. With a Gaussian kernel, the model admits closed form solutions to the state update equations due to conjugac ...

35 Online information disclosure: Motivators and measurements



Kai-Lung Hui, Bernard C. Y. Tan, Chyan-Yee Goh

November 2006 ACM Transactions on Internet Technology (TOIT), Volume 6 Issue 4

Publisher: ACM Press

Full text available: Topdf(300.28 KB) Additional Information: full citation, abstract, references, index terms

To increase their revenue from electronic commerce, more and more Internet businesses are soliciting personal information from consumers in order to target products and services at the right consumers. But when deciding whether to disclose their personal information to Internet businesses, consumers may weigh the concerns of giving up information privacy against the benefits of information disclosure. This article examines how Internet businesses can motivate consumers to disclose their personal ...

Keywords: Information privacy, Internet business, information disclosure, measurement, motivators, personality

36 Research track: Applications of sampling and fractional factorial designs to model-





free data squashing

William DuMouchel, Deepak K. Agarwal

August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03

Publisher: ACM Press

Full text available: 📆 pdf(196.35 KB) - Additional Information: full citation, abstract, references, index terms

The concept of "data squashing" was introduced by DuMouchel et al [4] as a method of summarizing massive data sets that preserves statistical relationships among variables. The idea is to create a smaller data set that allows statistical modeling to take place using in-memory algorithms, and to preserve the modeling results more accurately than would a same-size random sample from the massive data set. This research attempts to avoid several limitations of previous approaches to data squashing. ...

Keywords: data squashing, fractional factorial design, stratified sampling, summary of massive datasets

Mining massively incomplete data sets by conceptual reconstruction



Charu C. Aggarwal, Srinivasan Parthasarathy

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining KDD '01

Publisher: ACM Press

Full text available: pdf(630.83 KB)

Additional Information: full citation, abstract, references, citings, index terms

Incomplete data sets have become almost ubiquitous in a wide variety of application domains. Common examples can be found in climate and image data sets, sensor data sets and medical data sets. The incompleteness in these data sets may arise from a number of factors: in some cases it may simply be a reflection of certain measurements Results (page 2): (covariance OR covariation) and motivation and opinion and weight

not being available at the time; in others the information may be lost due to partial system failure; or it may simply be a result of users being unwilling to speci ...

38 Technical reports



SIGACT News Staff January 1980 ACM SIGACT News, Volume 12 Issue 1

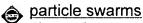
Publisher: ACM Press

Full text available: pdf(5.28 MB)

Additional Information: full citation

39 Ant colony optimization and swarm intelligence: Bayesian optimization models for





Christopher K. Monson, Kevin D. Seppi

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: 📆 pdf(203.54 KB) Additional Information: full citation, abstract, references, index terms

We explore the use of information models as a guide for the development of single objective optimization algorithms, giving particular attention to the use of Bayesian models in a PSO context. The use of an explicit information model as the basis for particle motion provides tools for designing successful algorithms. One such algorithm is developed and shown empirically to be effective. Its relationship to other popular PSO algorithms is explored and arguments are presented that those algorithms ...

Keywords: mathematical models, optimization, swarm intelligence

Data mining of multidimensional remotely sensed images





Robert F. Cromp, William J. Campbell

December 1993 Proceedings of the second international conference on Information and knowledge management CIKM '93

Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, references, citings, index terms

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Relevance scale

41 Quantifiable data mining using ratio rules

Flip Korn, Alexandros Labrinidis, Yannis Kotidis, Christos Faloutsos February 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: Additional Information: full citation, abstract, citings, index terms

Association Rule Mining algorithms operate on a data matrix (e.g., customers \$\times\$ products) to derive association rules [AIS93b, SA96]. We propose a new paradigm, namely, Ratio Rules, which are quantifiable in that we can measure the "goodness" of a set of discovered rules. We also propose the "guessing error" as a measure of the "goodness", that is, the root-mean-square error of the reconstructed values of the cells of the given matrix, when we pre ...

Keywords: Data mining, Forecasting, Guessing error, Knowledge discovery

42 Session 4A: Balanced max 2-sat might not be the hardest

Per Austrin

June 2007 Proceedings of the thirty-ninth annual ACM symposium on Theory of computing STOC '07

Publisher: ACM Press

Full text available: 📆 pdf(249.05 KB) Additional Information: full citation, abstract, references, index terms

We show that, assuming the Unique Games Conjecture, it is NP-hard to approximate MAX2SAT within a_{117} + ϵ , where 0.9401 < a_{117} < 0.9402 is the believed approximation ratio of the algorithm of Lewin, Livnat and Zwick [28].

This result is surprising considering the fact that balanced instances of MAX2SAT, i.e., instances where each variable occurs positively and negatively equally often, can be approximated within 0.9439. In ...

Keywords: Max 2-Sat, inapproximability, unique games conjecture

43 A bayesian approach to the design of simulation experiments

Mark A. Turnquist, Joseph M. Sussman

December 1976 Proceedings of the 76 Bicentennial conference on Winter simulation **WSC '76**

Publisher: Winter Simulation Conference

Full text available: R pdf(558.45 KB) Additional Information: full citation, abstract, references, index terms

http://portal.acm.org/results.cfm?query=%28covariance%20OR%20covariation%29%20an... 6/24/2007

Simulation is inherently an experimental modelling tool. One obtains results from simulation models by operating them, or in other terms, by conducting experiments with them. The intrinsic experimental na-ure of simulation (and its resulting costliness as a modelling methodology) implies that in order to utilize simulation effectively, it is important to make the fullest possible use of the tools of experimental design and statistical analysis. Effective de ...

44 The role of conceptual models in formal software training

(a)

Conrad Shayo, Lorne Olfman
June 1998 Proceedings of the 1998 ACM SIGCPR conference on Computer personnel
research SIGCPR '98

Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms

Keywords: conceptual models, mental models, user training

45 Pac-bayesian generalisation error bounds for gaussian process classification
Matthias Seeger

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: pdf(487.11 KB)

Additional Information: full citation, abstract, references, citings, index terms

Approximate Bayesian Gaussian process (GP) classification techniques are powerful non-parametric learning methods, similar in appearance and performance to support vector machines. Based on simple probabilistic models, they render interpretable results and can be embedded in Bayesian frameworks for model selection, feature selection, etc. In this paper, by applying the PAC-Bayesian theorem of McAllester (1999a), we prove distribution-free generalisation error bounds for a wide range of approxima ...

Keywords: Bayesian learning, Gaussian processes, Gibbs classifier, Kernel machines, PAC-Bayesian framework, convex duality, generalisation error bounds, sparse approximations

46 A measurement-analytic approach for QoS estimation in a network based on the dominant time scale

Do Young Eun, Ness B. Shroff

April 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 2

Publisher: IEEE Press

Full text available: pdf(901.69 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe a measurement-analytic approach for estimating the overflow probability, an important measure of the quality of service (QoS), at a given multiplexing point in the network. A multiplexing point in the network could be a multiplexer or an output port of a switch or router where resources such as bandwidth and buffers are shared. Our approach impinges on using the notion of the *dominant time scale* (DTS), which corresponds to the most probable time scale over which ...

Keywords: Gaussian processes, dominant time scale (DTS), measurements, overflow probability, stopping criterion

47 Statistics and data mining techniques for lifetime value modeling

D. R. Mani, James Drew, Andrew Betz, Piew Datta
August 1999 Proceedings of the fifth ACM SIGKDD international conference on

Knowledge discovery and data mining KDD '99

Publisher: ACM Press

Full text available: R pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

Keywords: lifetime value, neural networks, proportional hazards regression, survival analysis, tenure prediction

48 Paper session II: applications: A multimedia data base browsing system

Massimiliano Albanese, Carmine Cesarano, Antonio Picariello

June 2004 Proceedings of the 1st international workshop on Computer vision meets databases CVDB '04

Publisher: ACM Press

Full text available: To pdf(483.79 KB) Additional Information: full citation, abstract, references, citings

Browsing large multimedia databases is becoming a challenging problem, due to the availability of great amounts of data and the complexity of retrieval. In this paper we propose a system that assists a user in browsing a digital collection making useful recommendations. The system combines computer vision techniques and taxonomic classifications to measure the similarity between objects and adopts an innovative strategy to take into account user behavior.

49 Word sense disambiguation using a second language monolingual corpus

Ido Dagan, Alon Itai

December 1994 Computational Linguistics, Volume 20 Issue 4

Publisher: MIT Press

Full text available: pdf(2.57 MB) Additional Information: full citation, abstract, references, citings

This paper presents a new approach for resolving lexical ambiguities in one language using statistical data from a monolingual corpus of another language. This approach exploits the differences between mappings of words to senses in different languages. The paper concentrates on the problem of target word selection in machine translation, for which the approach is directly applicable. The presented algorithm identifies syntactic relations between words, using a source language parser, and maps t ...

50 Examination of gender effects on intention to stay among information systems

employees

Magid Igbaria, Laku Chidambaram

April 1995 Proceedings of the 1995 ACM SIGCPR conference on Supporting teams, groups, and learning inside and outside the IS function reinventing IS SIGCPR '95

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

51 Algorithms for solid noise synthesis

J. P. Lewis

July 1989 ACM SIGGRAPH Computer Graphics, Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH

'89, Volume 23 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: R pdf(4.69 MB)

A solid noise is a function that defines a random value at each point in space. Solid noises have immediate and powerful applications in surface texturing, stochastic modeling, and the animation of natural phenomena. Existing solid noise synthesis algorithms are surveyed and two new algorithms are presented. The first uses Wiener interpolation to interpolate random values on a discrete lattice. The second is an efficient sparse convolution algorithm. Both algorithms are developed for *model-dir* ...

52 Localization: VOR base stations for indoor 802.11 positioning

Dragoş Niculescu, Badri Nath

September 2004 Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04

Publisher: ACM Press

Full text available: pdf(732.15 KB)

Additional Information: full

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Angle of arrival (AOA) has previously been used for outdoor positioning in aircraft navigation and for services like E911. For indoor positioning, the best schemes to date rely either on extensive infrastructure, or on sampling of the signal strength on a dense grid, which is subject to changes in the environment, like furniture, elevators, or people. We present an indoor positioning architecture that does not require a signal strength map, simply requiring the placement of special VOR base stat ...

Keywords: 802.11, AOA, VOR, VORBA, indoor positioning, ranging

53 Collaborative ordinal regression

Shipeng Yu, Kai Yu, Volker Tresp, Hans-Peter Kriegel

June 2006 Proceedings of the 23rd international conference on Machine learning ICML '06

Publisher: ACM Press

Full text available: pdf(327.78 KB) Additional Information: full citation, abstract, references, index terms

Ordinal regression has become an effective way of learning user preferences, but most research focuses on single regression problems. In this paper we introduce *collaborative ordinal regression*, where multiple ordinal regression tasks are handled simultaneously. Rather than modeling each task individually, we explore the dependency between ranking functions through a hierarchical Bayesian model and assign a common Gaussian Process (GP) prior to all individual functions. Empirical studies ...

54 <u>Dynamic Conditional Random Fields: Factorized Probabilistic Models for Labeling and Segmenting Sequence Data</u>

Charles Sutton, Andrew McCallum, Khashayar Rohanimanesh May 2007 The Journal of Machine Learning Research, Volume 8

Publisher: MIT Press

Full text available: pdf(300.20 KB) Additional Information: full citation, abstract

In sequence modeling, we often wish to represent complex interaction between labels, such as when performing multiple, cascaded labeling tasks on the same sequence, or when long-range dependencies exist. We present *dynamic conditional random fields* (DCRFs), a generalization of linear-chain conditional random fields (CRFs) in which each time slice contains a set of state variables and edges---a distributed state representation as in dynamic Bayesian networks (DBNs)---and parameters are ...

55 Citizen participation 1: Should e-government design for citizen participation?: stealth

democracy and deliberation

Peter Muhlberger

May 2006 Proceedings of the 2006 international conference on Digital government research dg.o '06

Publisher: ACM Press

Full text available: pdf(256.70 KB) Additional Information: full citation, abstract, references, index terms

Cyberoptimists have heralded an age of citizen engagement enabled by electronic technologies that allow widespread citizen input in government decision making. In contrast, influential political scientists maintain that the preponderance of citizens quite

Results (page 3): (covariance OR covariation) and motivation and opinion and weight

reasonably wish to avoid political participation and that involving citizens could have very negative consequences for governance. In their widely-read book, *Stealth Democracy*, Hibbing and Theiss-Morse seek to show that much of the Ameri ...

Keywords: democratic deliberation, human agency, online deliberation, political apathy, political discussion, political participation, stealth democracy

Regret bounds for prediction problems

Geoffrey J. Gordon

July 1999 Proceedings of the twelfth annual conference on Computational learning theory COLT '99

Publisher: ACM Press

Full text available: pdf(1.41 MB)

Additional Information: full citation, references, citings, index terms

57 Visual profiles: a critical component of universal access

Julie A. Jacko, Max A. Dixon, Robert H. Rosa, Ingrid U. Scott, Charles J. Pappas
May 1999 Proceedings of the SIGCHI conference on Human factors in computing
systems: the CHI is the limit CHI '99

Publisher: ACM Press

Full text available: pdf(961.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

This research focuses on characterizing visually impaired computer users performance on graphical user interfaces by linking clinical assessments of low vision with visual icon identification. This was accomplished by evaluating user performance on basic identification and selection tasks within a graphical user interface, comparing partially sighted user performance with fully sighted user performance, and linking task performance to specific profiles of visual impairment. Results in ...

Keywords: disabilities, low vision, universal access, visual icons

58 Analyzing Gene Expression Time-Courses

Alexander Schliep, Ivan G. Costa, Christine Steinhoff, Alexander Schonhuth

July 2005 IEEE/ACM Transactions on Computational Biology and Bioinformatics

(TCBB), Volume 2 Issue 3

Publisher: IEEE Computer Society Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Measuring gene expression over time can provide important insights into basic cellular processes. Identifying groups of genes with similar expression time-courses is a crucial first step in the analysis. As biologically relevant groups frequently overlap, due to genes having several distinct roles in those cellular processes, this is a difficult problem for classical clustering methods. We use a mixture model to circumvent this principal problem, with hidden Markov models (HMMs) as effective and ...

Keywords: Index Terms- Mixture modeling, hidden Markov models, partially supervised learning, gene expression, time-course analysis.

59 Nonparametric classification with polynomial MPMC cascades

Sander M. Bohte, Markus Breitenbach, Gregory Z. Grudic

July 2004 Proceedings of the twenty-first international conference on Machine learning ICML '04

Publisher: ACM Press

Full text available: pdf(434.30 KB) Additional Information: full citation, abstract, references

A new class of nonparametric algorithms for high-dimensional binary classification is

proposed using cascades of low dimensional polynomial structures. Construction of polynomial cascades is based on Minimax Probability Machine Classification (MPMC), which results in direct estimates of classification accuracy, and provides a simple stopping criteria that does not require expensive cross-validation measures. This Polynomial MPMC Cascade (PMC) algorithm is constructed in linear time with respect ...

60 Capturing the effects of context on human performance in mobile computing systems



Leon Barnard, Ji Soo Yi, Julie A. Jacko, Andrew Sears January 2007 **Personal and Ubiquitous Computing**, Volume 11 Issue 2

Publisher: Springer-Verlag

Full text available: pdf(553.24 KB) Additional Information: full citation, abstract

Many real world mobile device interactions occur in context-rich environments. However, the majority of empirical studies on mobile computing are conducted in static or idealized conditions, resulting in a deficit of understanding of how changes in context impact users' abilities to perform effectively. This paper attempts to address the disconnect between the actual use and the evaluation of mobile devices by varying contextual conditions and recording changes in behavior. A study was pe ...

Keywords: Context, Human performance, Lighting, Mobile computing, Movement, Walking

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[PDF] Corporate reputation, trait covariation and the averaging principle

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averaging all traits but giving more weight to those they feel are more. important" (Taylor et al., 1994, p. 38). Trait covariation ...

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WIDS	2006-11-15	30 -	Y F:	2007-05-09 00:00:00.0	CR #232884
WIDS	2005-12-22	20	YE	2007-05-09 00:00:00.0	CR #232884
WIDS	2003-08-04	13	YE	2007-05-09 00:00:00.0	CR #232884
Update					